FIG. 1

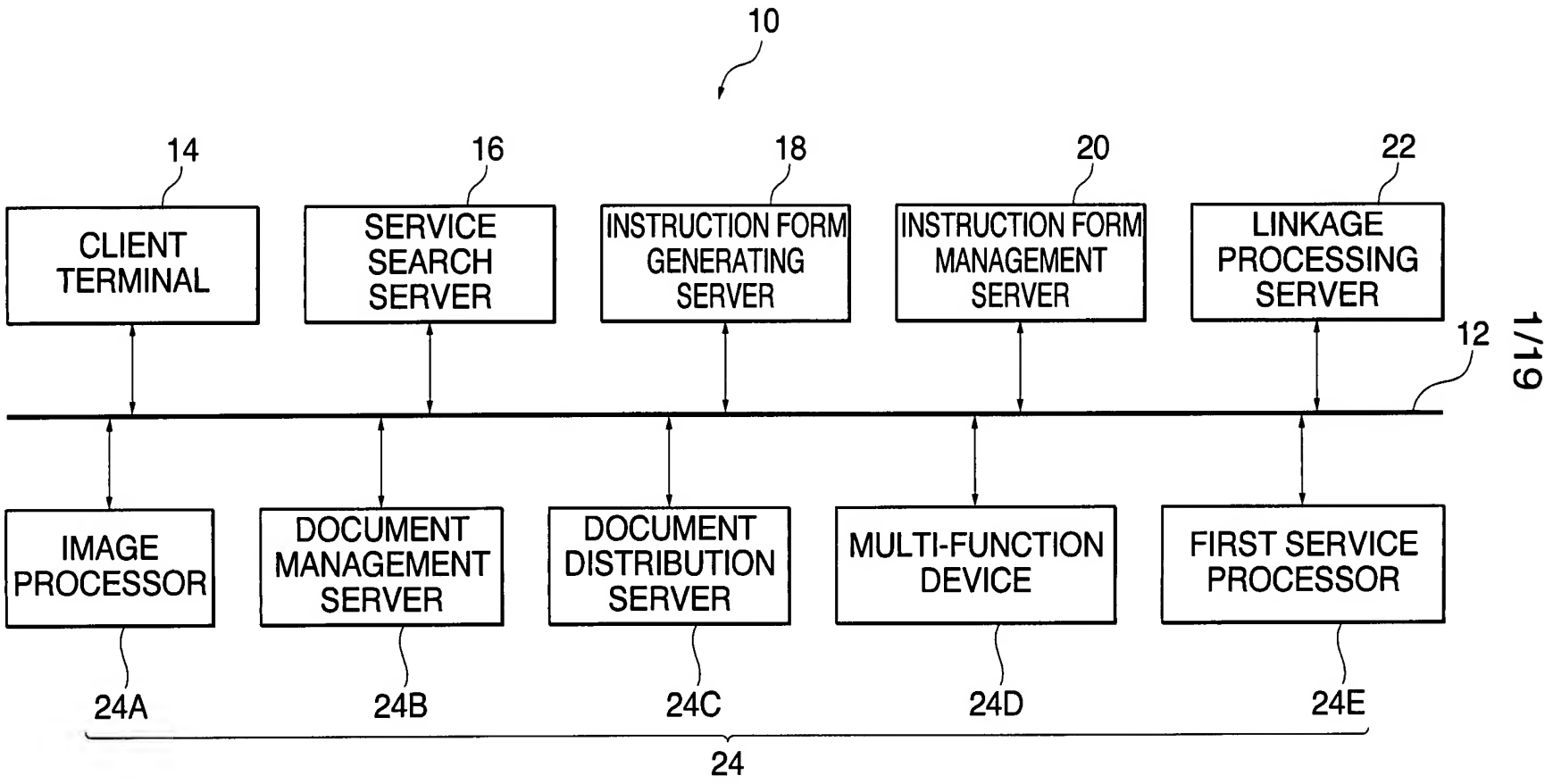

10
14
16
18
20
22
CLIENT TERMINAL
SERVICE SEARCH SERVER
INSTRUCTION FORM GENERATING SERVER
INSTRUCTION FORM MANAGEMENT SERVER
LINKAGE PROCESSING SERVER
12
IMAGE PROCESSOR
DOCUMENT MANAGEMENT SERVER
DOCUMENT DISTRIBUTION SERVER
MULTI-FUNCTION DEVICE
FIRST SERVICE PROCESSOR
24A
24B
24C
24D
24E
24

FIG. 2

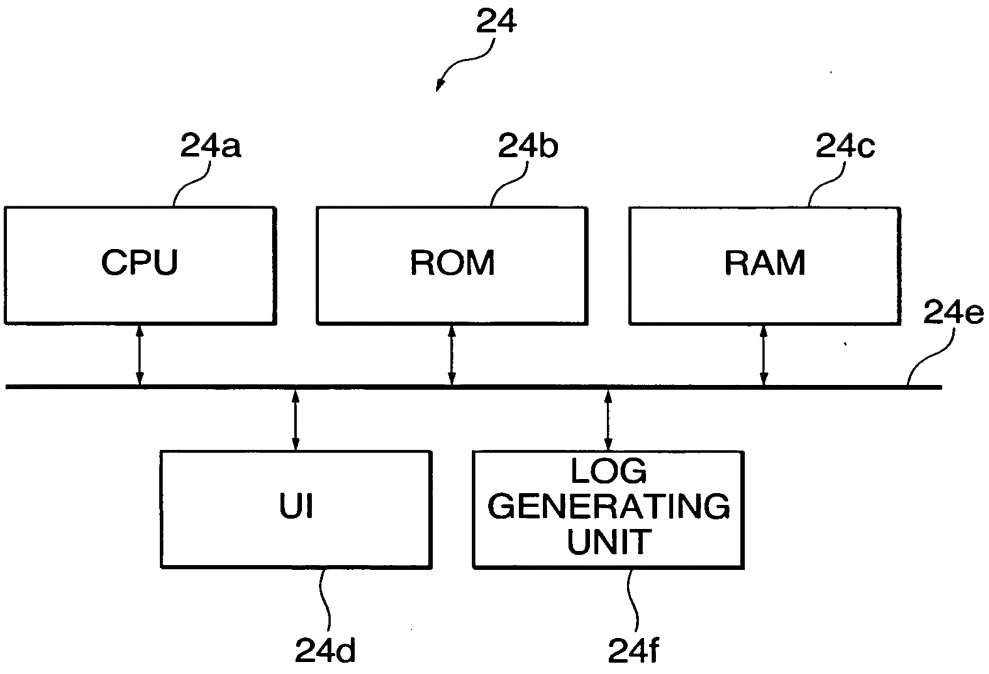


FIG. 3

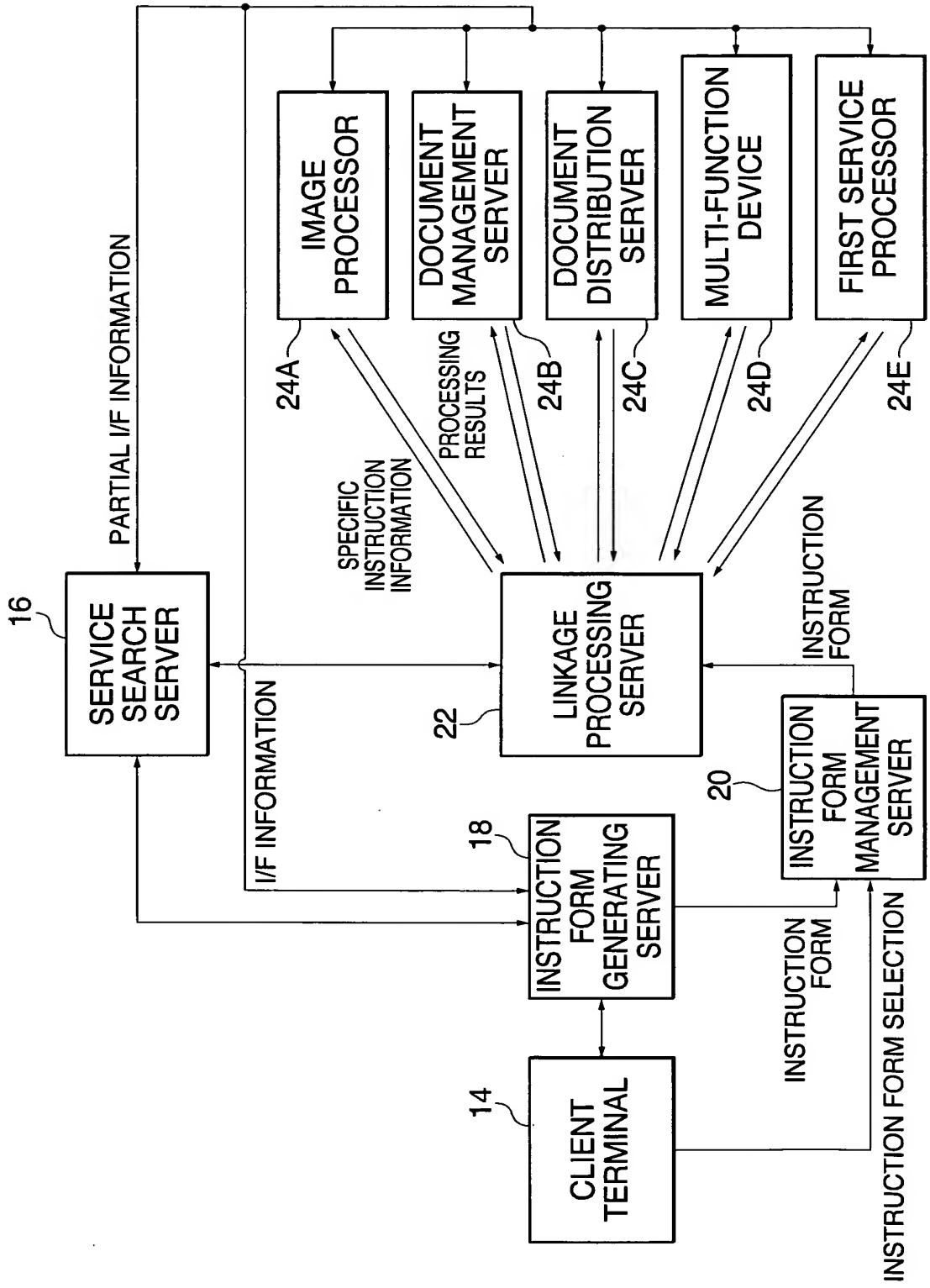


IMAGE PROCESSOR
DOCUMENT MANAGEMENT SERVER
DOCUMENT DISTRIBUTION SERVER
MULTI-FUNCTION DEVICE
FIRST SERVICE PROCESSOR
24A
24B
24C
24D
24E
PROCESSING RESULTS
SPECIFIC INSTRUCTION INFORMATION
PARTIAL I/F INFORMATION
16
SERVICE SEARCH SERVER
I/F INFORMATION
22
LINKAGE PROCESSING SERVER
INSTRUCTION FORM
20
INSTRUCTION FORM MANAGEMENT SERVER
18
INSTRUCTION FORM GENERATING SERVER
INSTRUCTION FORM
INSTRUCTION FORM SELECTION
14
CLIENT TERMINAL

FIG. 4

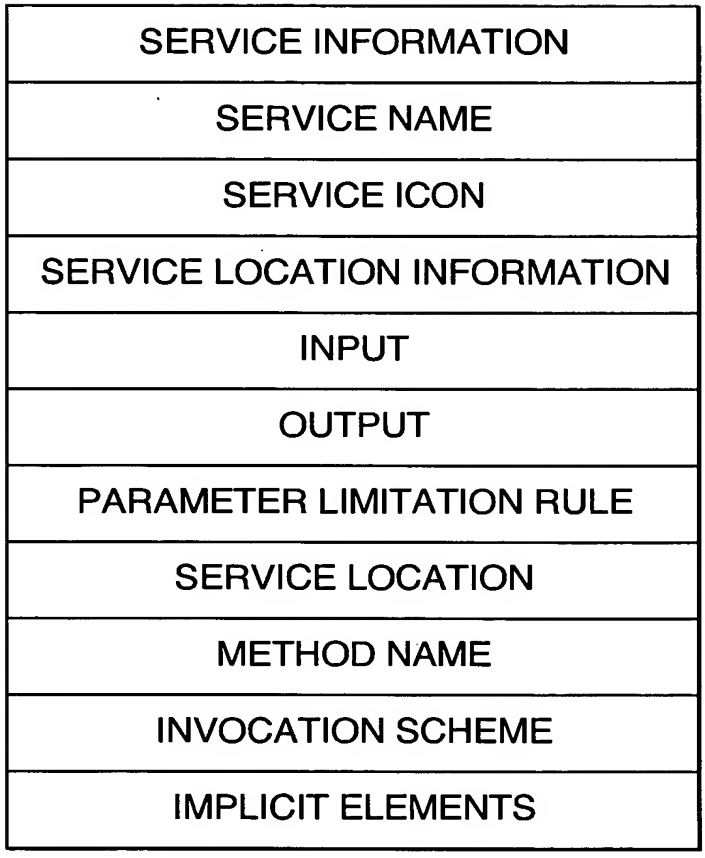

I/F INFORMATION
SERVICE INFORMATION
SERVICE NAME
SERVICE ICON
SERVICE LOCATION INFORMATION
INPUT
OUTPUT
PARAMETER LIMITATION RULE
SERVICE LOCATION
METHOD NAME
INVOCATION SCHEME
IMPLICIT ELEMENTS

FIG. 5

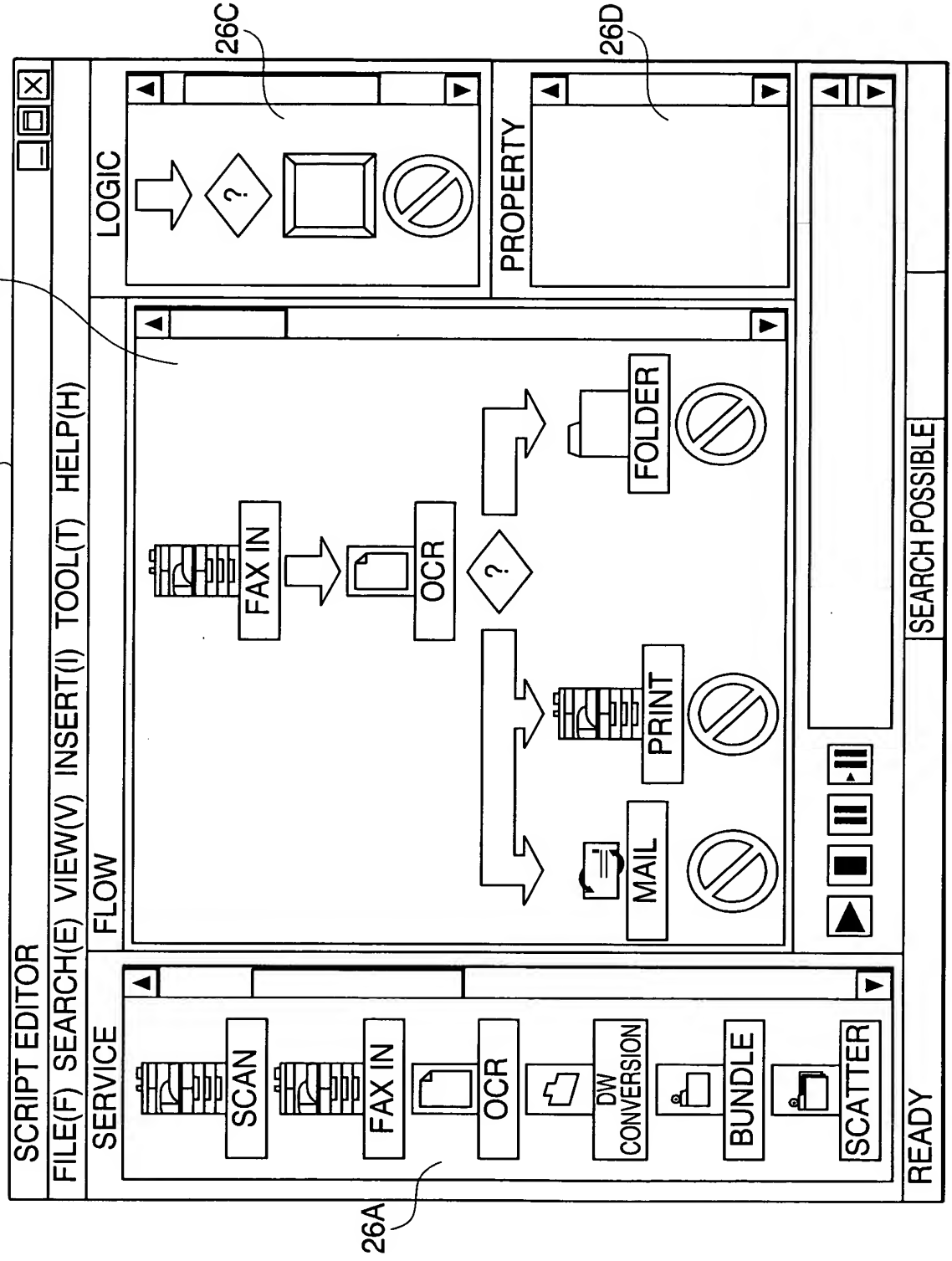

SCRIPT EDITOR
FILE(F) SEARCH(E) VIEW(V) INSERT(I) TOOL(T) HELP(H)
26
26B
26C
26D
LOGIC
PROPERTY
FLOW
SERVICE
SCAN
FAX IN
OCR
DW CONVERSION
BUNDLE
SCATTER
FAX IN
OCR
FOLDER
PRINT
MAIL
SEARCH POSSIBLE
READY
26A

FIG. 6

INSTRUCTION FORM

SERVICE INFORMATION
SERVICE NAME
SERVICE ICON
SERVICE LOCATION INFORMATION
INPUT
OUTPUT
PARAMETER LIMITATION RULE
SERVICE LOCATION
METHOD NAME
INVOCATION SCHEME
IMPLICIT ELEMENTS
FLOW (INVOCATION, MAP, METHOD) (CONTROL STRUCTURE, LOGICAL CALCULATION)

FIG. 7

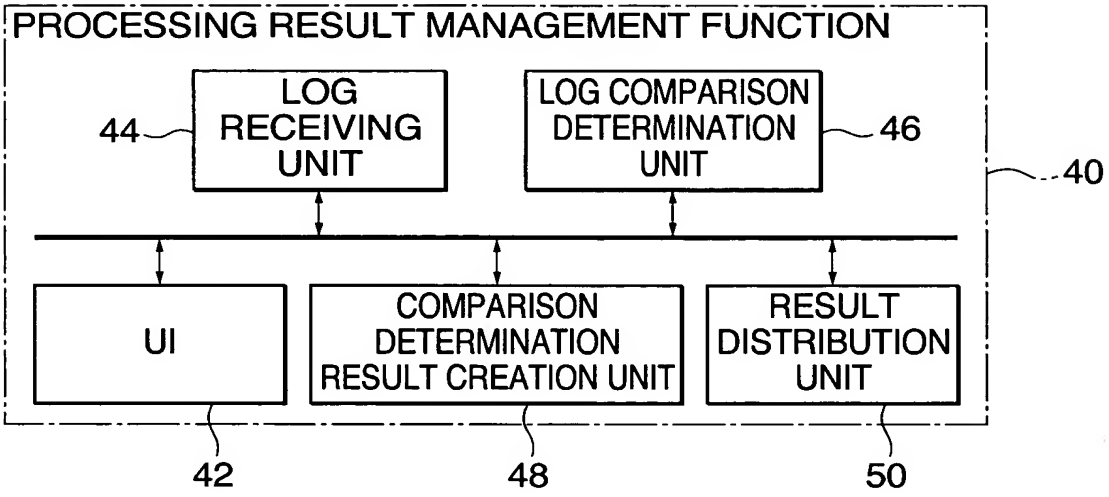

PROCESSING RESULT MANAGEMENT FUNCTION
LOG RECEIVING UNIT
44
LOG COMPARISON DETERMINATION UNIT
46
40
UI
COMPARISON DETERMINATION RESULT CREATION UNIT
RESULT DISTRIBUTION UNIT
42
48
50

FIG. 8

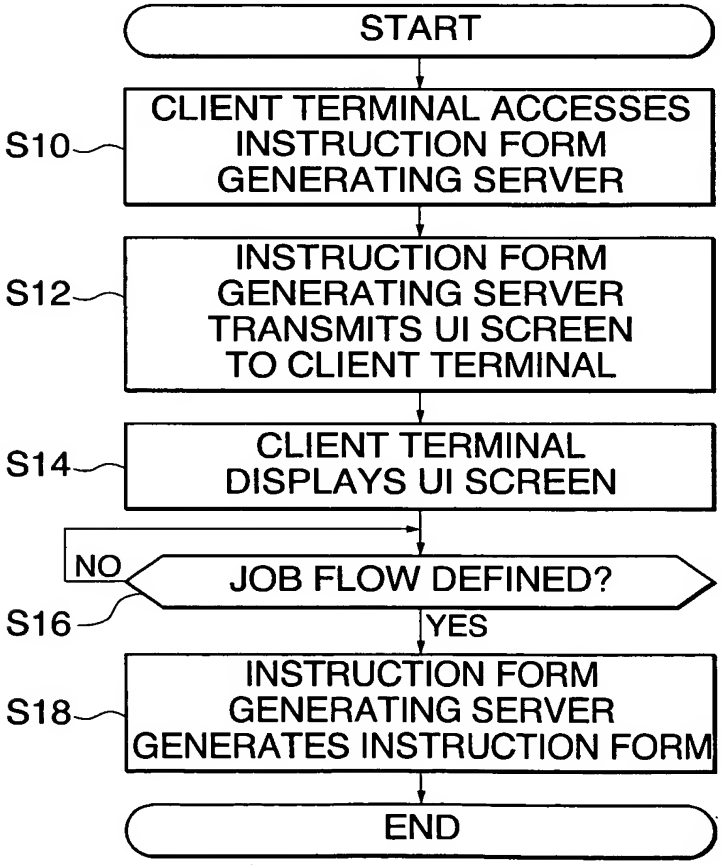

START
S10
CLIENT TERMINAL ACCESSES INSTRUCTION FORM GENERATING SERVER
S12
INSTRUCTION FORM GENERATING SERVER TRANSMITS UI SCREEN TO CLIENT TERMINAL
S14
CLIENT TERMINAL DISPLAYS UI SCREEN
NO
JOB FLOW DEFINED?
S16
YES
S18
INSTRUCTION FORM GENERATING SERVER GENERATES INSTRUCTION FORM
END

FIG. 9

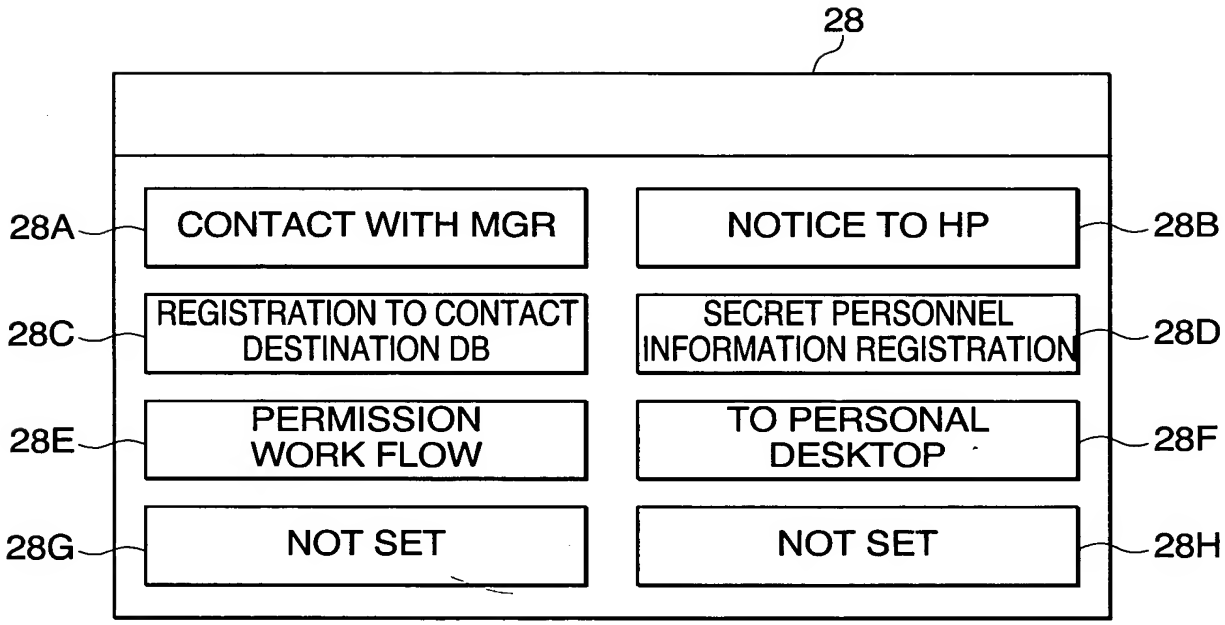

28
28A
CONTACT WITH MGR
NOTICE TO HP
28B
28C
REGISTRATION TO CONTACT DESTINATION DB
SECRET PERSONNEL INFORMATION REGISTRATION
28D
28E
PERMISSION WORK FLOW
TO PERSONAL DESKTOP
28F
28G
NOT SET
NOT SET
28H

FIG. 10

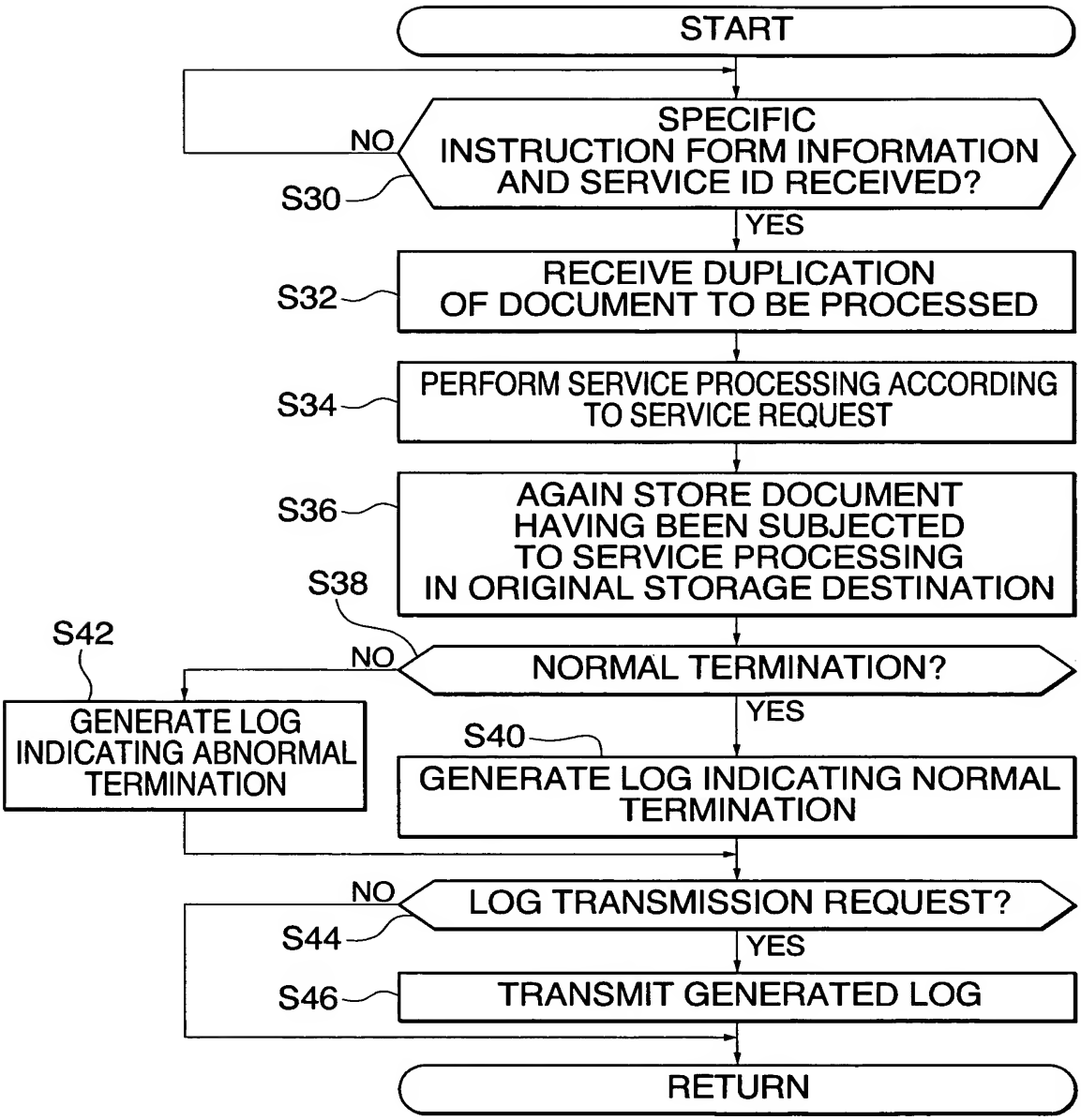

START
SPECIFIC INSTRUCTION FORM INFORMATION AND SERVICE ID RECEIVED?
NO
S30
YES
RECEIVE DUPLICATION OF DOCUMENT TO BE PROCESSED
S32
PERFORM SERVICE PROCESSING ACCORDING TO SERVICE REQUEST
S34
AGAIN STORE DOCUMENT HAVING BEEN SUBJECTED TO SERVICE PROCESSING IN ORIGINAL STORAGE DESTINATION
S36
S38
NORMAL TERMINATION?
NO
YES
S42
GENERATE LOG INDICATING ABNORMAL TERMINATION
S40
GENERATE LOG INDICATING NORMAL TERMINATION
LOG TRANSMISSION REQUEST?
NO
S44
YES
TRANSMIT GENERATED LOG
S46
RETURN

FIG. 11

NO.	JOB ID	SERVICE ID	INPUT SOURCE	SERVICE LINKAGE CONTENTS	JOB CONTENTS	START TIME	REQUIRED TIME	STATUS	ERROR CONTENTS
1	0026	002	MULTI-FUNCTION DEVICE	○△□××××	××××	11-6:11:57AM	43 SEC	NORMAL	–
2	0027	003	IMAGE PROCESSOR	○○△□○×	××××	11-6: 2:25PM	20 SEC	NORMAL	–
3	0028	004	DOCUMENT MANAGEMENT SERVER	×××○××	××××	11-6: 4:50PM	45 SEC	NORMAL	–
4	0029	007	MULTI-FUNCTION DEVICE	×××○××	××××	11-7:11:57AM	44 SEC	ERROR	COMMUNICATION ERROR

FIG. 12

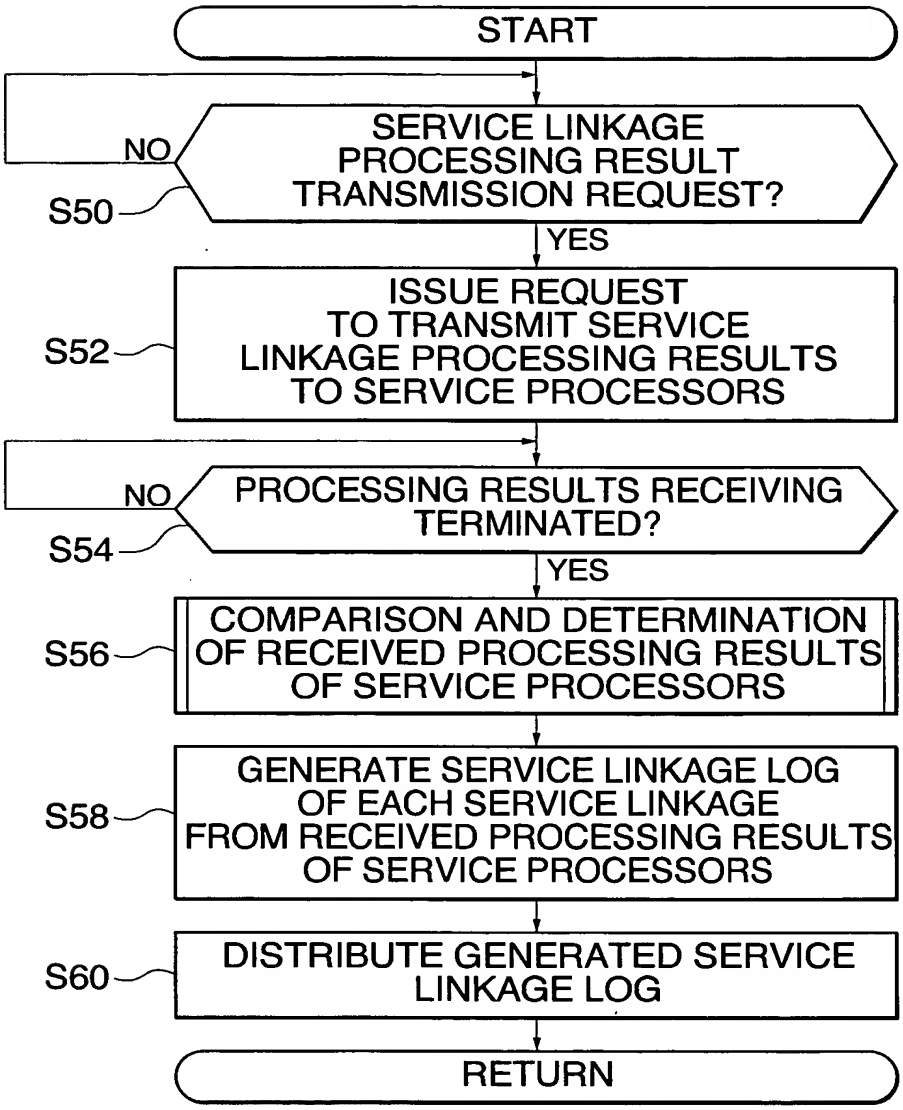

START
SERVICE LINKAGE PROCESSING RESULT TRANSMISSION REQUEST?
NO
S50
YES
ISSUE REQUEST TO TRANSMIT SERVICE LINKAGE PROCESSING RESULTS TO SERVICE PROCESSORS
S52
PROCESSING RESULTS RECEIVING TERMINATED?
NO
S54
YES
COMPARISON AND DETERMINATION OF RECEIVED PROCESSING RESULTS OF SERVICE PROCESSORS
S56
GENERATE SERVICE LINKAGE LOG OF EACH SERVICE LINKAGE FROM RECEIVED PROCESSING RESULTS OF SERVICE PROCESSORS
S58
DISTRIBUTE GENERATED SERVICE LINKAGE LOG
S60
RETURN

FIG. 13

SERVICE ID	SERVICE STATUS	DEVICE LOG	START TIME	STATUS	FIRST SERVICE LOG	START TIME	STATUS	SECOND SERVICE LOG	START TIME	STATUS	THIRD SERVICE LOG	START TIME	STATUS
001	NORMAL	MULTI-FUNCTION DEVICE	11-6:11:57	NORMAL	IMAGE PROCESSOR	11-6:12:02	NORMAL	DOCUMENT MANAGEMENT SERVER	11-6:12:04	NORMAL	DOCUMENT DISTRIBUTION SERVER	11-6:12:08	NORMAL
002	NORMAL	CLIENT TERMINAL	11-6:13:24	NORMAL	MULTI-FUNCTION DEVICE	11-6:13:25PM	NORMAL	IMAGE PROCESSOR	11-6:13:28	NORMAL	CLIENT TERMINAL	11-6:13:30	NORMAL
003	NORMAL	DOCUMENT MANAGEMENT SERVER	11-6:14:50	NORMAL	DOCUMENT MANAGEMENT SERVER	11-6:14:51	NORMAL	DOCUMENT MANAGEMENT SERVER	11-6:14:52	NORMAL	DOCUMENT MANAGEMENT SERVER	11-6:14:55	NORMAL
004	AB-NORMAL	MULTI-FUNCTION DEVICE	11-7:11:57	NORMAL	IMAGE PROCESSOR	11-7:11:58	NORMAL	DOCUMENT MANAGEMENT SERVER	11-7:12:00	NORMAL	DOCUMENT DISTRIBUTION SERVER	–	–

FIG. 14

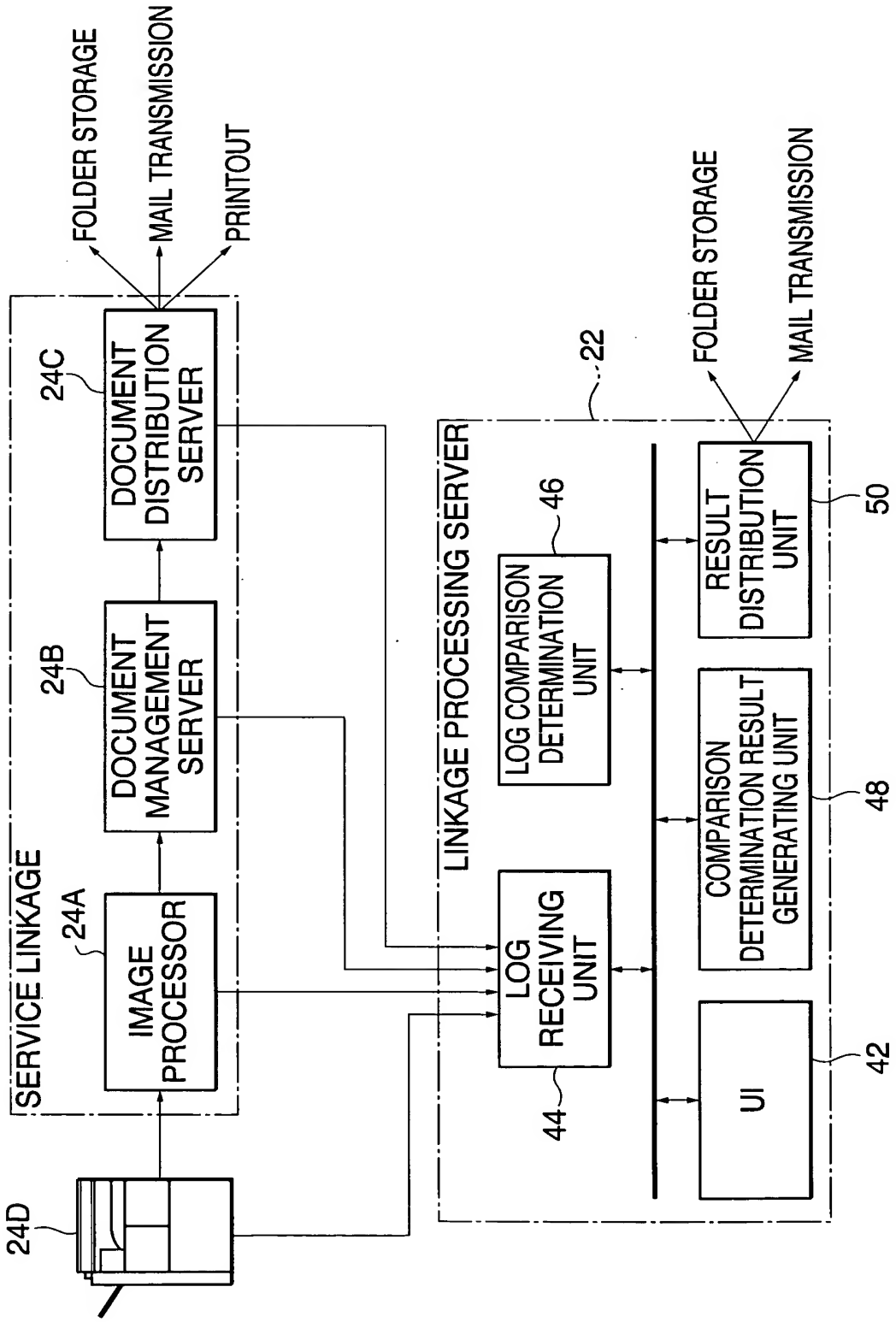

FOLDER STORAGE
MAIL TRANSMISSION
PRINTOUT
SERVICE LINKAGE
24C
DOCUMENT DISTRIBUTION SERVER
24B
DOCUMENT MANAGEMENT SERVER
24A
IMAGE PROCESSOR
24D
LINKAGE PROCESSING SERVER
22
LOG RECEIVING UNIT
44
LOG COMPARISON DETERMINATION UNIT
46
COMPARISON DETERMINATION RESULT GENERATING UNIT
48
RESULT DISTRIBUTION UNIT
50
UI
42
FOLDER STORAGE
MAIL TRANSMISSION

FIG. 15

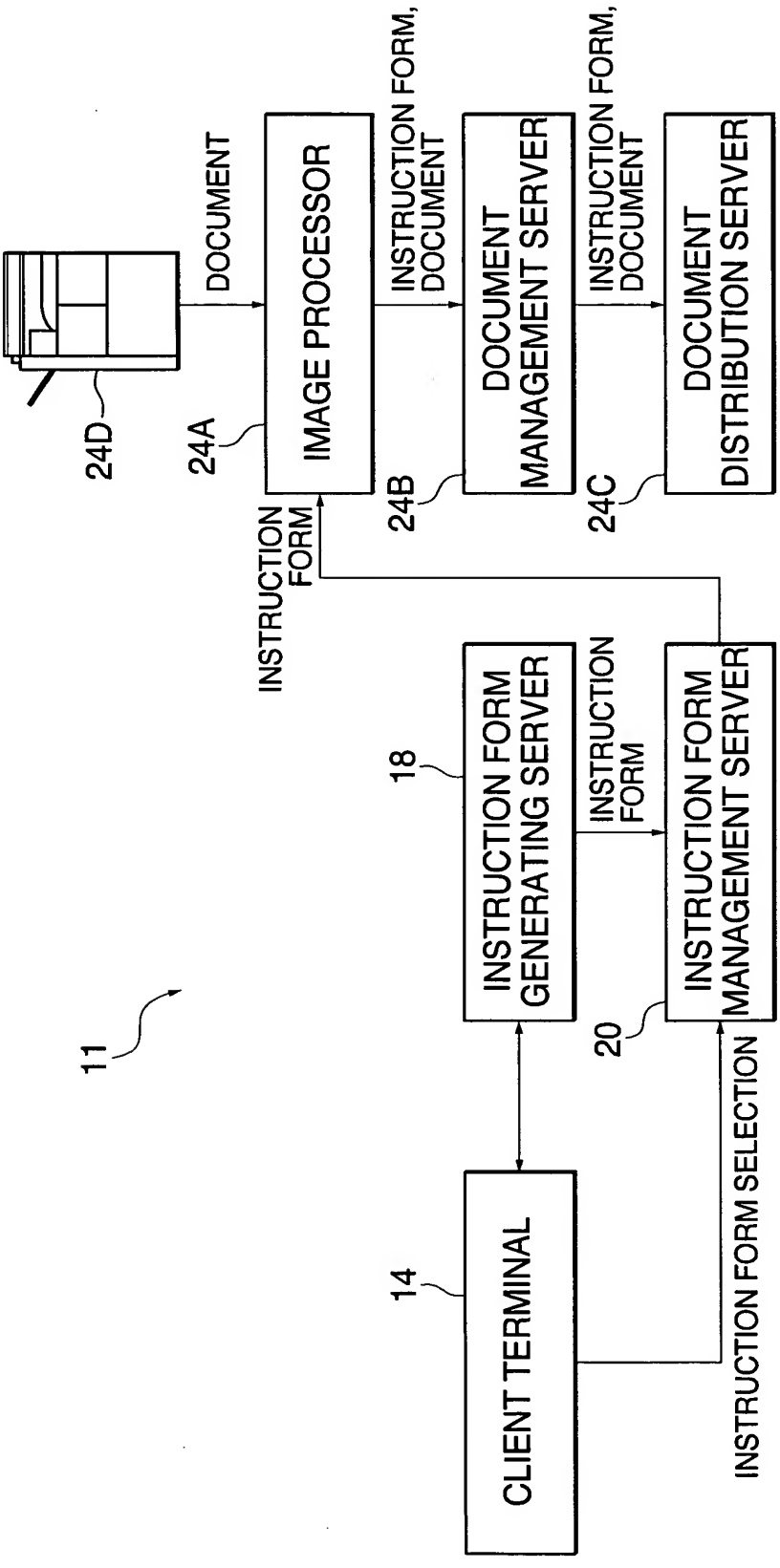

11
24D
24A
IMAGE PROCESSOR
DOCUMENT
INSTRUCTION FORM, DOCUMENT
24B
DOCUMENT MANAGEMENT SERVER
INSTRUCTION FORM, DOCUMENT
24C
DOCUMENT DISTRIBUTION SERVER
INSTRUCTION FORM
18
INSTRUCTION FORM GENERATING SERVER
INSTRUCTION FORM
20
INSTRUCTION FORM MANAGEMENT SERVER
14
CLIENT TERMINAL
INSTRUCTION FORM SELECTION

FIG. 16

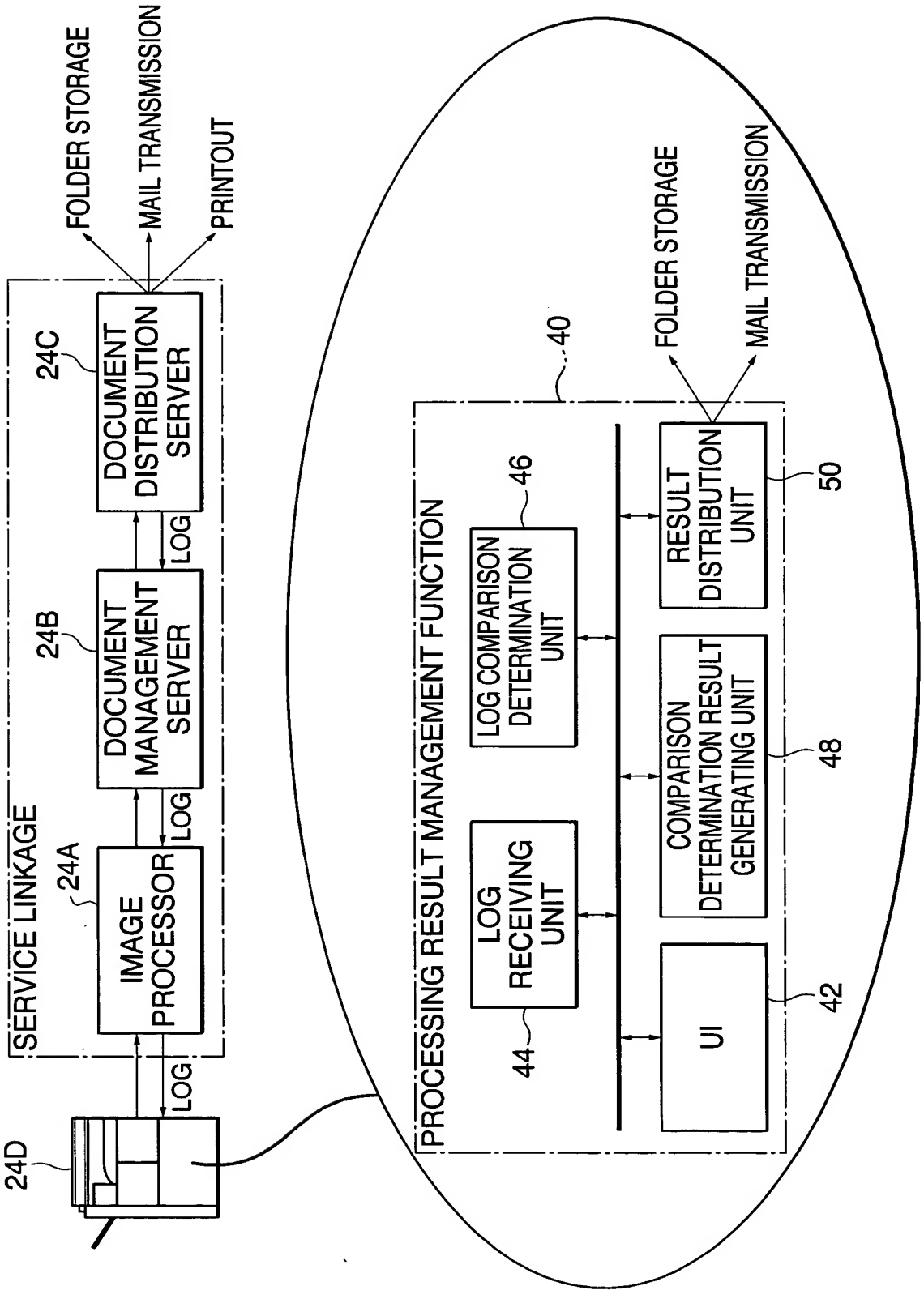

SERVICE LINKAGE
24A
IMAGE PROCESSOR
24B
DOCUMENT MANAGEMENT SERVER
24C
DOCUMENT DISTRIBUTION SERVER
LOG
LOG
LOG
24D
FOLDER STORAGE
MAIL TRANSMISSION
PRINTOUT
PROCESSING RESULT MANAGEMENT FUNCTION
40
LOG RECEIVING UNIT
44
LOG COMPARISON DETERMINATION UNIT
46
COMPARISON DETERMINATION RESULT GENERATING UNIT
48
RESULT DISTRIBUTION UNIT
50
UI
42
FOLDER STORAGE
MAIL TRANSMISSION

FIG. 17

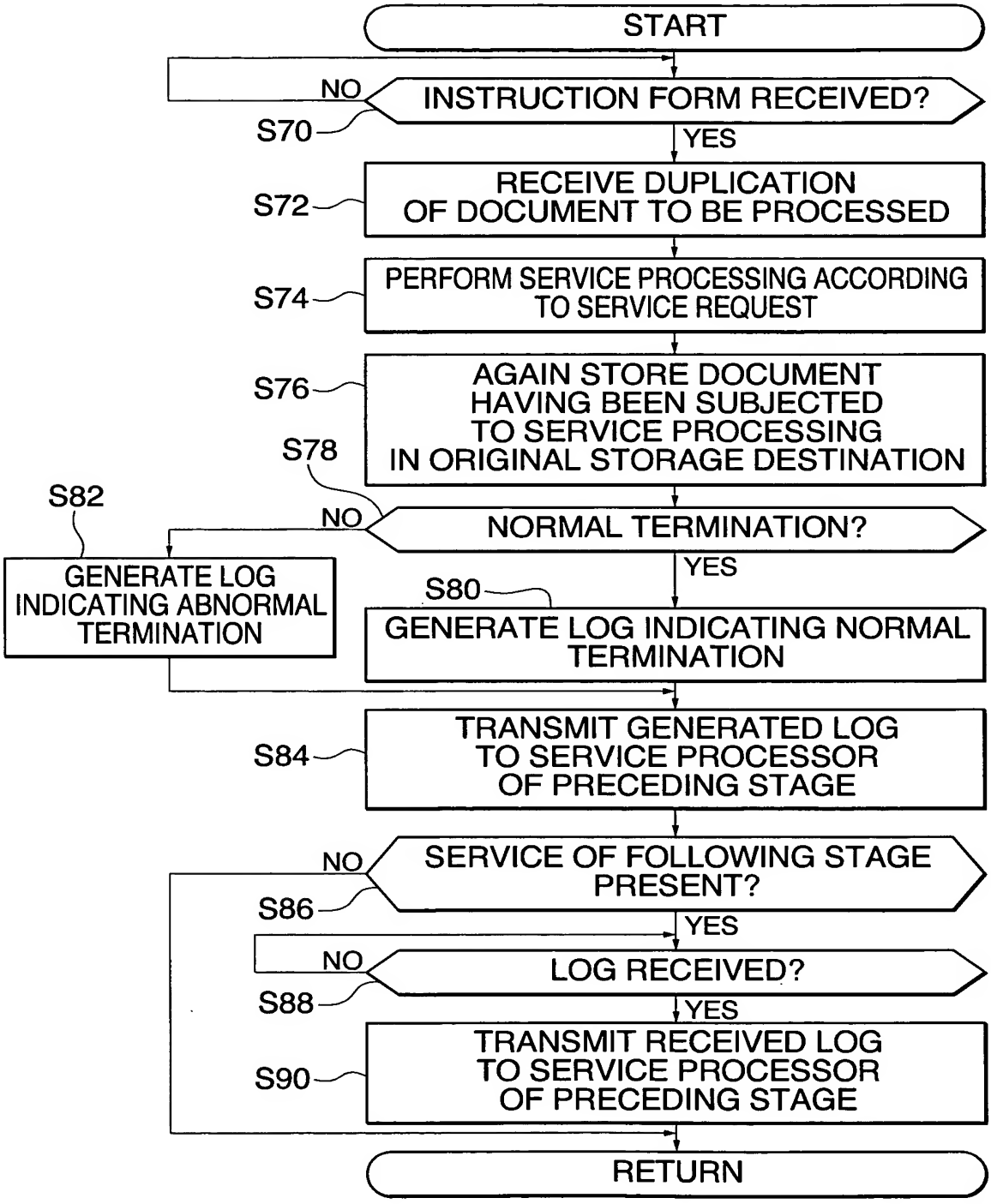

START
NO
INSTRUCTION FORM RECEIVED?
S70
YES
S72
RECEIVE DUPLICATION OF DOCUMENT TO BE PROCESSED
S74
PERFORM SERVICE PROCESSING ACCORDING TO SERVICE REQUEST
S76
AGAIN STORE DOCUMENT HAVING BEEN SUBJECTED TO SERVICE PROCESSING IN ORIGINAL STORAGE DESTINATION
S78
S82
NO
NORMAL TERMINATION?
YES
GENERATE LOG INDICATING ABNORMAL TERMINATION
S80
GENERATE LOG INDICATING NORMAL TERMINATION
S84
TRANSMIT GENERATED LOG TO SERVICE PROCESSOR OF PRECEDING STAGE
NO
SERVICE OF FOLLOWING STAGE PRESENT?
S86
YES
NO
LOG RECEIVED?
S88
YES
S90
TRANSMIT RECEIVED LOG TO SERVICE PROCESSOR OF PRECEDING STAGE
RETURN

FIG. 18

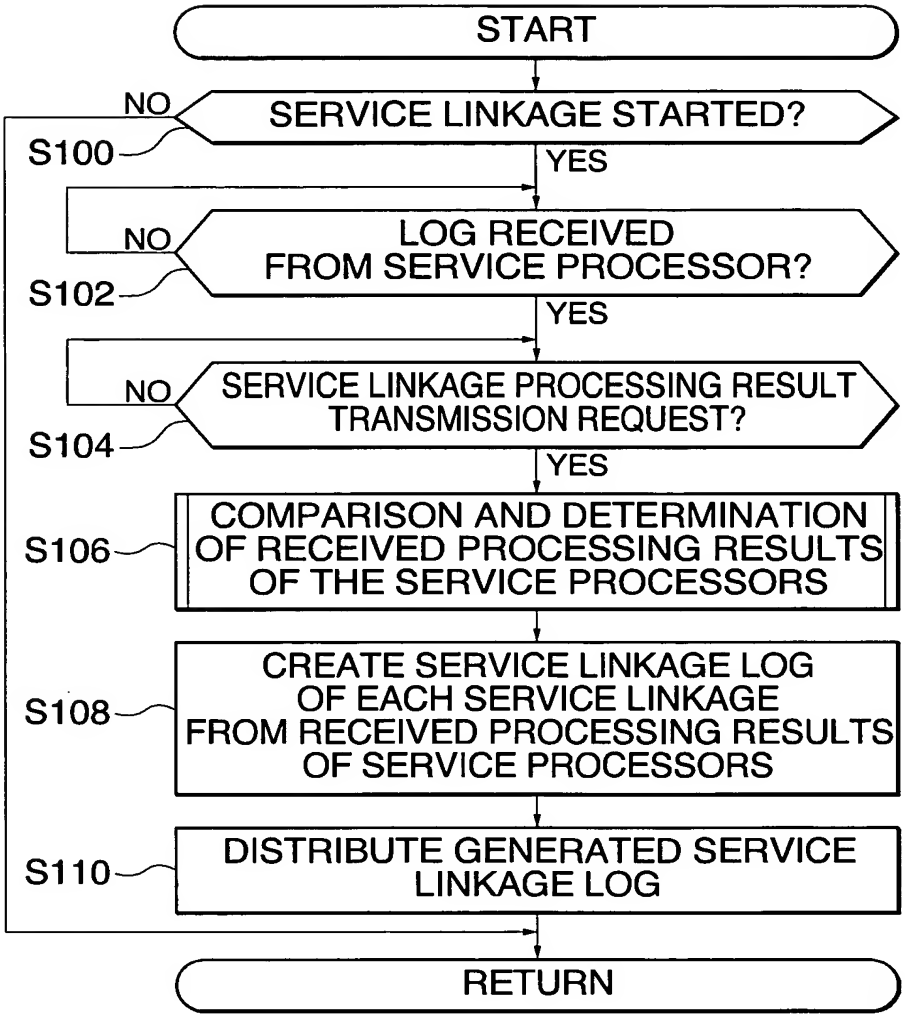

START
NO
SERVICE LINKAGE STARTED?
S100
YES
NO
LOG RECEIVED FROM SERVICE PROCESSOR?
S102
YES
NO
SERVICE LINKAGE PROCESSING RESULT TRANSMISSION REQUEST?
S104
YES
COMPARISON AND DETERMINATION OF RECEIVED PROCESSING RESULTS OF THE SERVICE PROCESSORS
S106
CREATE SERVICE LINKAGE LOG OF EACH SERVICE LINKAGE FROM RECEIVED PROCESSING RESULTS OF SERVICE PROCESSORS
S108
DISTRIBUTE GENERATED SERVICE LINKAGE LOG
S110
RETURN

FIG. 19

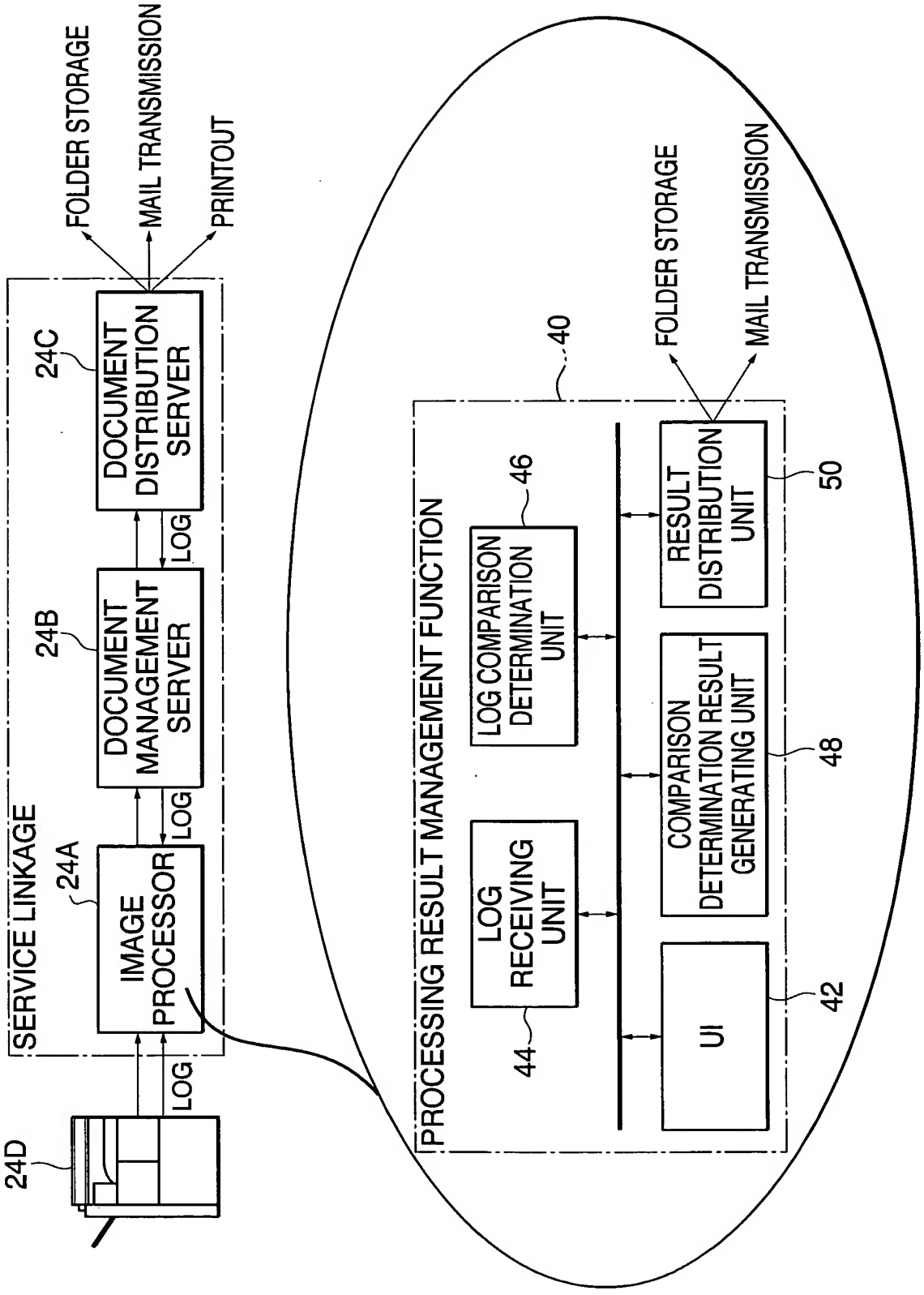
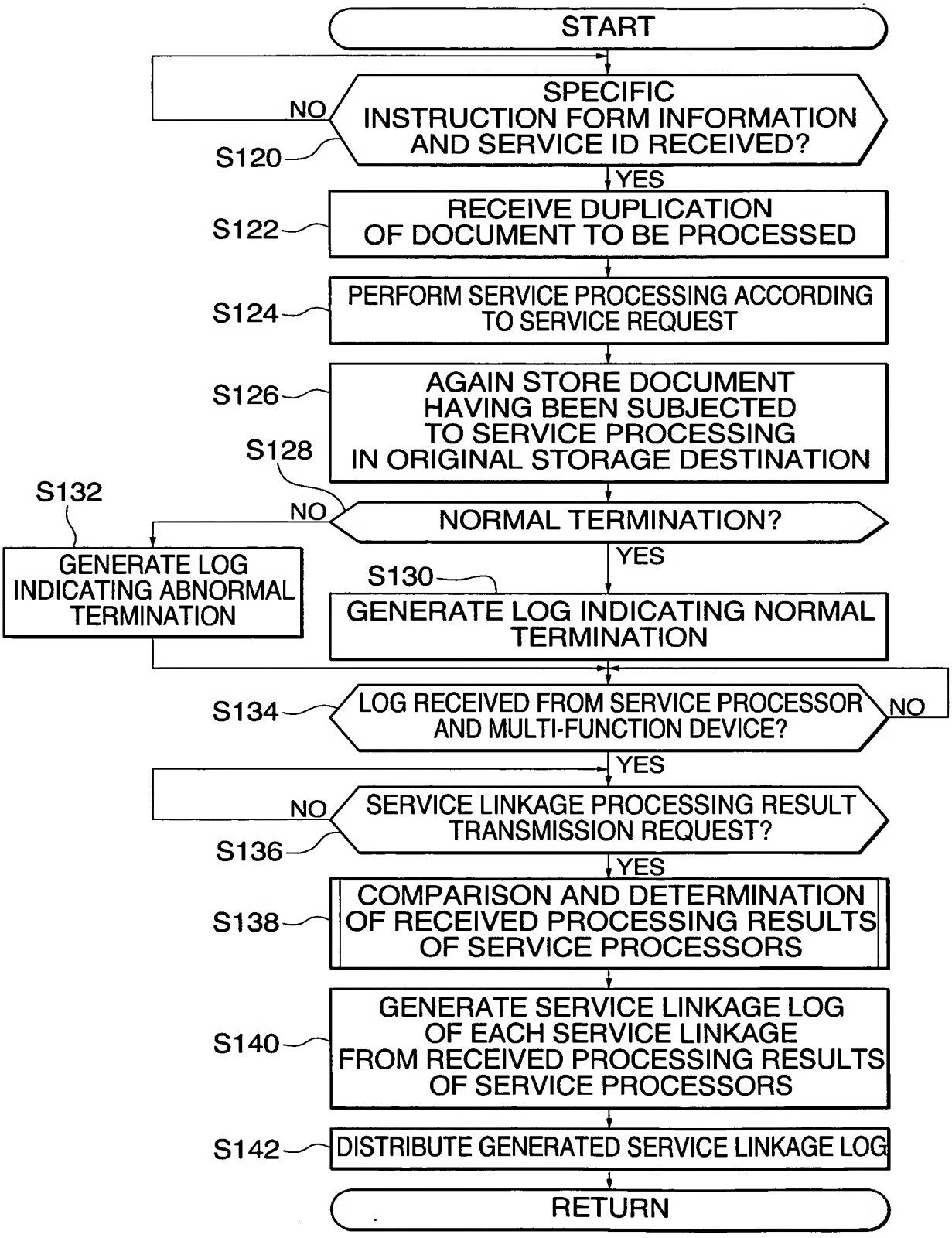

SERVICE LINKAGE
24A
IMAGE PROCESSOR
24B
DOCUMENT MANAGEMENT SERVER
24C
DOCUMENT DISTRIBUTION SERVER
24D
LOG
LOG
LOG
FOLDER STORAGE
MAIL TRANSMISSION
PRINTOUT
PROCESSING RESULT MANAGEMENT FUNCTION
40
LOG RECEIVING UNIT
44
LOG COMPARISON DETERMINATION UNIT
46
COMPARISON DETERMINATION RESULT GENERATING UNIT
48
RESULT DISTRIBUTION UNIT
50
UI
42
FOLDER STORAGE
MAIL TRANSMISSION

FIG. 20


START
SPECIFIC INSTRUCTION FORM INFORMATION AND SERVICE ID RECEIVED?
NO
S120
YES
S122
RECEIVE DUPLICATION OF DOCUMENT TO BE PROCESSED
S124
PERFORM SERVICE PROCESSING ACCORDING TO SERVICE REQUEST
S126
AGAIN STORE DOCUMENT HAVING BEEN SUBJECTED TO SERVICE PROCESSING IN ORIGINAL STORAGE DESTINATION
S128
NORMAL TERMINATION?
NO
S132
GENERATE LOG INDICATING ABNORMAL TERMINATION
YES
S130
GENERATE LOG INDICATING NORMAL TERMINATION
S134
LOG RECEIVED FROM SERVICE PROCESSOR AND MULTI-FUNCTION DEVICE?
NO
YES
SERVICE LINKAGE PROCESSING RESULT TRANSMISSION REQUEST?
NO
S136
YES
S138
COMPARISON AND DETERMINATION OF RECEIVED PROCESSING RESULTS OF SERVICE PROCESSORS
S140
GENERATE SERVICE LINKAGE LOG OF EACH SERVICE LINKAGE FROM RECEIVED PROCESSING RESULTS OF SERVICE PROCESSORS
S142
DISTRIBUTE GENERATED SERVICE LINKAGE LOG
RETURN